

What is claimed is:

1. Method of bonding a fluoroelastomer layer to a silicone rubber layer, the method comprising:

5 (i) providing a layer of a curable fluoropolymer composition comprising (a) a fluoropolymer capable of being dehydrofluorinated thereby forming reactive sites, (b) a dehydrofluorinating agent, (c) a curing agent capable of cross-linking said fluoropolymer through reaction with said reactive sites and (d) a peroxide;

10 (ii) contacting said layer of said curable fluoropolymer composition with a curable silicone layer comprising a silicone resin and a peroxide;

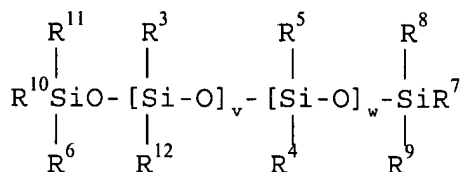
curing said layers while being in contact with each other at conditions sufficient to (a) cause dehydrofluorination of said fluoropolymer and cross-linking of said fluoropolymer layer and (b) cross-linking of said silicone resin, said curing being carried out in the presence of a bonding promoter selected from the group consisting of an organic compound having one or more
15 nucleophilic groups capable of reacting with said reactive sites of said fluoropolymer or having a precursor of said nucleophilic groups and one or more functional groups selected from ethylenically unsaturated groups, siloxy groups having at least one hydrolysable group and mixtures thereof, said bonding promoter being present in said layer of curable fluoropolymer and/or said curable silicone layer.

20 2. Method according to claim 1 wherein said bonding promoter is an organic compound that comprises an amino group or a hydroxy group and an ethylenically unsaturated group and wherein said bonding promoter is contained in said curable silicone layer.

25 3. Method according to claim 1 wherein said bonding promoter is an organic compound that comprises an amino group or a hydroxy group and a siloxy group having at least one hydrolysable group and wherein said bonding promoter is contained in said curable silicone layer.

30 4. Method according to claim 1 wherein said bonding promoter is a siloxane having a plurality of ethylenically unsaturated groups and having one or more hydrolysable groups and wherein said bonding promoter is contained in said layer of curable fluoropolymer.

5. Method according to claim 4 wherein said siloxane is a polysiloxane corresponding to the formula:



wherein R^{3-12} each independently represents a hydrolysable group, a hydroxy group, NH_2 or NHR with R representing a hydrocarbon group, with the proviso that at least one of R^{3-12} is a group selected from a hydrolysable group, a hydroxy group, NH_2 and NHR and at least one of R^{3-12} is a hydrocarbon group that contains an ethylenically unsaturated group, v and w each independently have a value of 0 to 20.

6. Method according to claim 1 wherein a bonding promoter as defined in claim 2 or 3 is contained in said layer of curable fluoropolymer composition and a bonding promoter as defined in claim 4 or 5 is contained in said curable silicone layer.

7. Method according to claim 1 wherein said bonding promoter is present in an amount of 0.75% by weight to 15% by weight in said layer of curable fluoropolymer composition or in an amount of 0.1 to 2% by weight in said curable silicone layer.

8. Method according to claim 1 wherein said curing agent is a polyhydroxy compound.

9. Method according to claim 1 wherein said dehydrofluorinating agent is a base or an organo onium compound.

10. Method according to claim 1 wherein said layer of said curable fluoropolymer further comprises a coagent having a plurality of ethylenically unsaturated groups but not containing nucleophilic groups or precursors thereof.

11. Laminate comprising (i) a layer of a curable fluoropolymer composition comprising (a) a fluoropolymer capable of being dehydrofluorinated thereby forming reactive

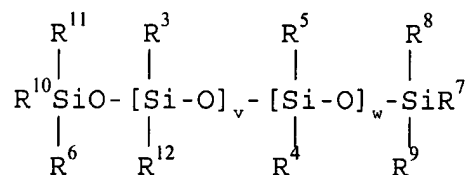
sites, (b) a dehydrofluorinating agent, (c) a curing agent capable of cross-linking said fluoropolymer through reaction with said reactive sites and (d) a peroxide; (ii) in direct contact with said layer of curable fluoropolymer composition, a curable silicone layer comprising a silicone resin and a peroxide and (iii) a bonding promoter contained in said layer of curable fluoropolymer composition and/or said curable silicone layer, said bonding promoter being selected from the group consisting of an organic compound having one or more nucleophilic groups capable of reacting with said reactive sites of said fluoropolymer or having a precursor of said nucleophilic groups and one or more functional groups selected from ethylenically unsaturated groups, siloxy groups having at least one hydrolysable group and mixtures thereof.

12. Laminate according to claim 11 wherein said bonding promoter is an organic compound that comprises an amino group or a hydroxy group and an ethylenically unsaturated group and wherein said bonding promoter is contained in said curable silicone layer.

13. Laminate according to claim 11 wherein said bonding promoter is an organic compound that comprises an amino group or a hydroxy group and a siloxy group having at least one hydrolysable group and wherein said bonding promoter is contained in said curable silicone layer.

14. Laminate according to claim 11 wherein said bonding promoter is a siloxane having a plurality of ethylenically unsaturated groups and wherein said bonding promoter is contained in said layer of curable fluoropolymer.

15. Laminate according to claim 14 wherein said siloxane is a polysiloxane corresponding to the formula:



wherein R^{3-12} each independently represents a hydrolysable group, a hydroxy group, NH_2 or NHR with R representing a hydrocarbon group, with the proviso that at least one of R^{3-12} is a group selected from a hydrolysable group, a hydroxy group, NH_2 and NHR and at least one of

R³⁻¹² is a hydrocarbon group that contains an ethylenically unsaturated group, v and w each independently have a value of 0 to 20.

16. Laminate according to claim 11 wherein a bonding promoter as defined in claim
5 12 or 13 is contained in said layer of curable fluoropolymer and a bonding promoter as defined
in claim 14 or 15 is contained in said curable silicone layer.

17. Laminate according to claim 11 wherein said bonding promoter is present in an
amount of 0.75% by weight to 15% by weight in said layer of curable fluoropolymer
10 composition or in an amount of 0.1 to 2% by weight in said curable silicone layer.

18. Laminate according to claim 11 wherein said curing agent is a polyhydroxy
compound.

15 19. Laminate according to claim 11 wherein said dehydrofluorinating agent is a base
or an organo onium compound.

20. Laminate according to claim 11 wherein said layer of said curable fluoropolymer
further comprises a coagent having a plurality of ethylenically unsaturated groups but not
20 containing nucleophilic groups or precursors thereof.

21. Article obtainable with the method according to claim 1.

22. Article according to claim 21 wherein said article is a component of a fuel
25 management system or a hose for connecting the compressor of a turbo engine to an intercooler.